Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-01-10** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/33/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-01-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.13	_
2	Finess by Air permeablity method (m^2/kg,Min)	269.8	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-01-10** **Date: 30-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/33/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-01-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-01-10** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/33/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1047	1047	7.0	93.0	90-100
3	20 mm	4864	5911	39.4	60.6	30-70
4	10 mm	5662	11573	77.2	22.8	10-35
5	4.75 mm	2791	14364	95.8	4.2	0-5
6	Pan	636	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-01-10** **Date: 04-01-18**

Sample ID No : 2018-01-01-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**13.1**	
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.16**	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-01-10** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/33/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	363	363	7.3	92.7	90-100
3	10 mm	2113	2476	49.5	50.5	25-55
4	4.75 mm	2245	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-01-10** **Date: 04-01-18**

Sample ID No : 2018-01-01-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**9.9**	
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.50**	_
5	Bulk Density(Compacted) (Kg/l)	**1.54**	_
6	Water Absorption(%)	**0.19**	_
7	Aggregate crushing Value(%)	**24.7**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.3**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-01-10** **Date: 04-01-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/33/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Sample ID No : 2018-01-01-10 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-01-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	67	67	6.7	93.3	90-100	90-100	90-100	95-100
3	2.36 mm	127	194	19.4	80.6	60-95	75-100	85-100	95-100
4	1.18 mm	214	408	40.8	59.2	30-70	55-90	75-100	90-100
5	600 micron	225	633	63.3	36.7	15-34	35-59	60-79	80-100
6	300 micron	195	828	82.8	17.2	5-20	8-30	12-40	15-50
7	150 micron	89	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-01-10** **Date: 04-01-18**

Sample ID No : 2018-01-01-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.32	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-01-10** **Date: 03-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/33/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-10 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	02-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	512	638	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	542	658	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	574	680	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-01-10-08 **Date: 16/01/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/33/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-01-18

Sample ID No : 2018-01-10-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	15/01/2018	150.11 X 150.32 X 150.54	22565	8.138	374.6	16.6	16.9
2	Drain Concrete	M20	08/01/2018	15/01/2018	150.22 X 150.76 X 150.11	22647	8.230	391.8	17.3	
3	Drain Concrete	M20	08/01/2018	15/01/2018	150.13 X 150.21 X 150.44	22551	8.330	381.1	16.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-10-08** **Date: 05/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/33/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-01-18

Sample ID No : 2018-01-10-08 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	05/02/2018	148.47 X 150.23 X 151.28	22305	8.174	517.5	23.2	23.1
2	Drain Concrete	M20	08/01/2018	05/02/2018	150.38 X 151.22 X 149.58	22740	8.213	529.9	23.3	
3	Drain Concrete	M20	08/01/2018	05/02/2018	150.22 X 149.88 X 150.63	22515	8.261	515.6	22.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-16-05** **Date: 20/01/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/33/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-18

Sample ID No : 2018-01-16-05 /01

Customer ID : CC Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Pavement	M20	13/01/2018	20/01/2018	150.20 X 150.32 X 150.14	22578	8.276	410.9	18.2	17.8
2	CC Pavement	M20	13/01/2018	20/01/2018	150.53 X 150.33 X 150.21	22629	8.288	396.0	17.5	
3	CC Pavement	M20	13/01/2018	20/01/2018	150.11 X 150.53 X 150.22	22596	8.198	402.2	17.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-16-05** **Date: 10/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at main roads and 1st to 6th cross roads at Byrappa garden in ward no.10, (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/33/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-18

Sample ID No : 2018-01-16-05 /02

Customer ID : CC Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Pavement	M20	13/01/2018	10/02/2018	150.30 X 150.24 X 150.21	22581	8.298	499.0	22.1	21.4
2	CC Pavement	M20	13/01/2018	10/02/2018	150.11 X 150.14 X 150.15	22538	8.256	482.3	21.4	
3	CC Pavement	M20	13/01/2018	10/02/2018	150.13 X 150.17 X 150.19	22545	8.232	466.7	20.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****